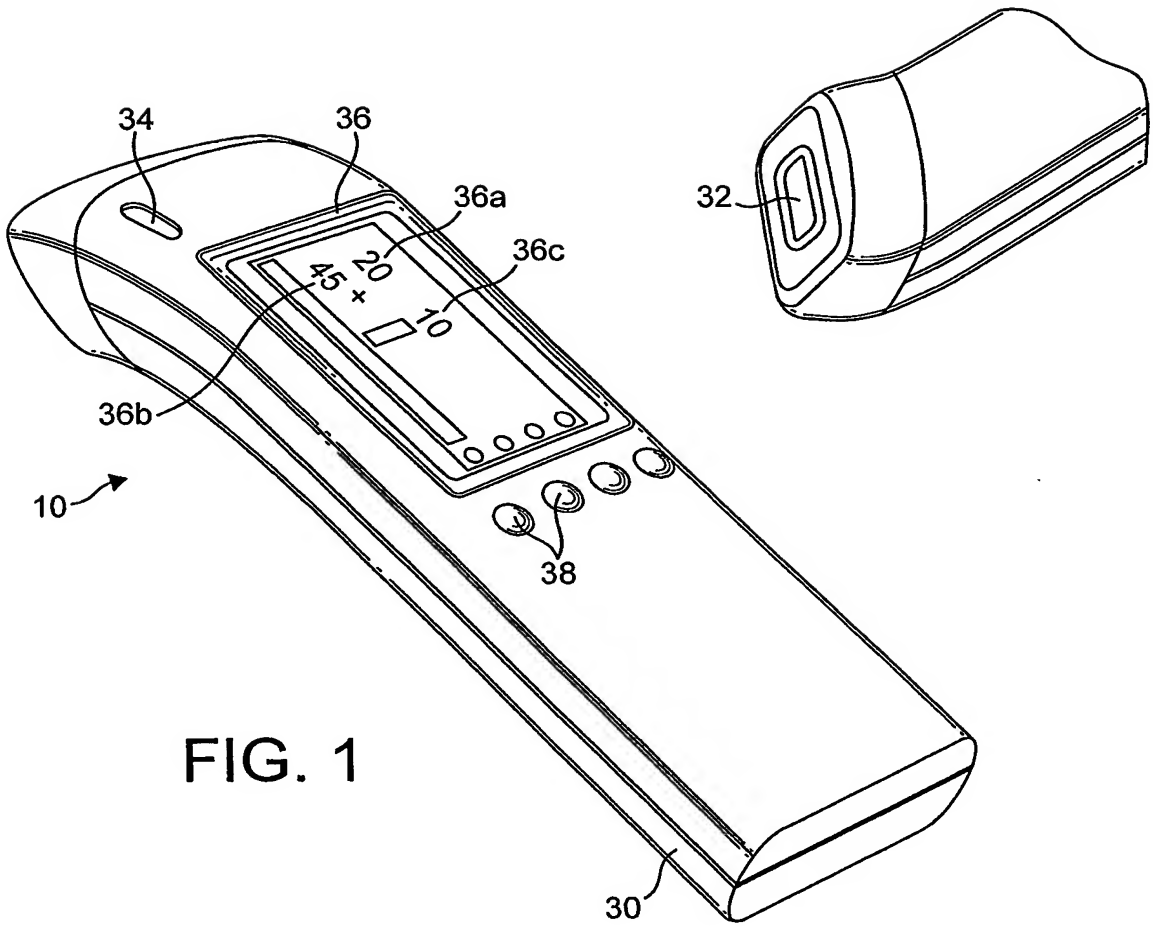

FIG. 1

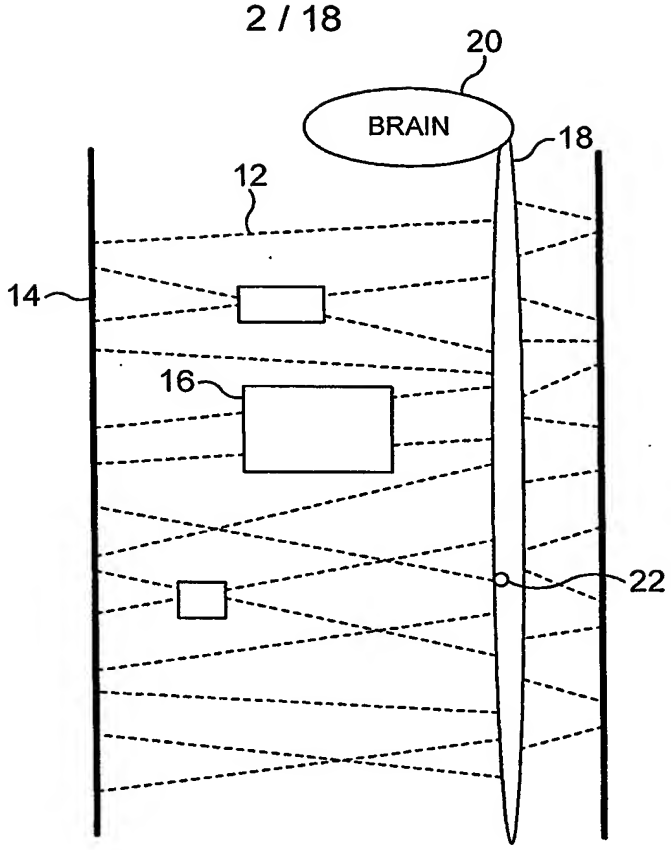

FIG. 2

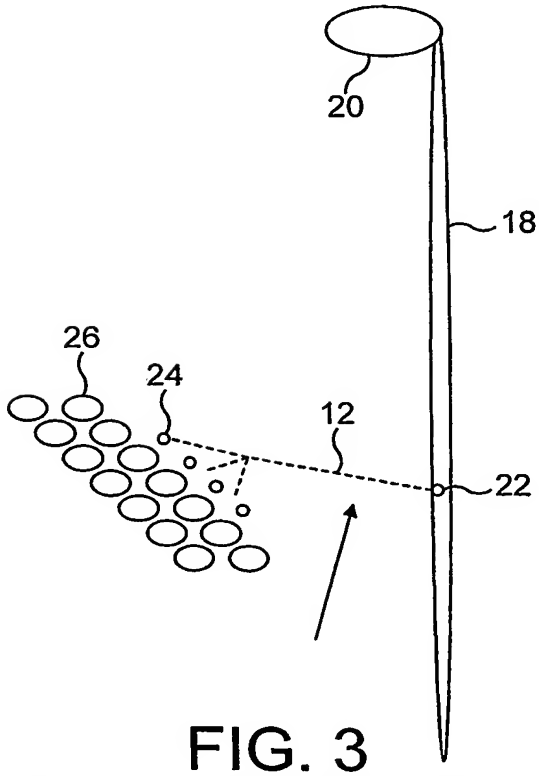

FIG. 3

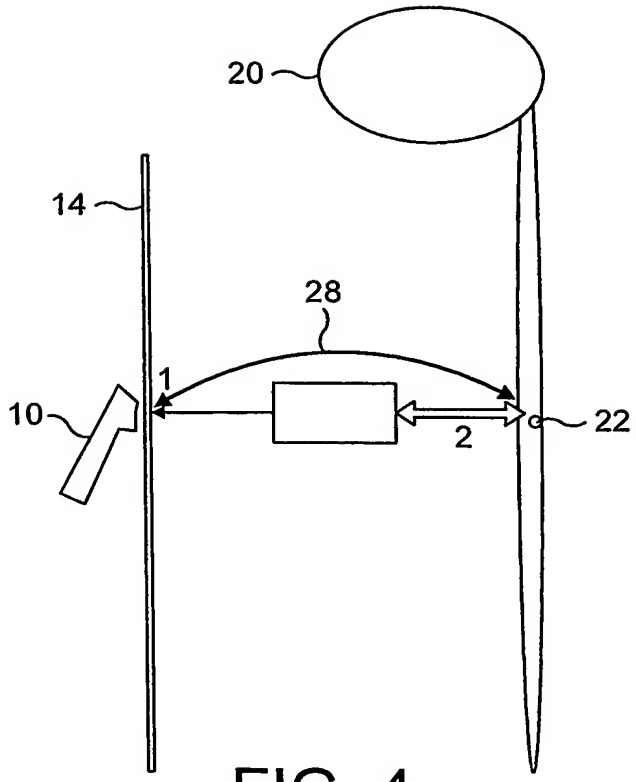

FIG. 4

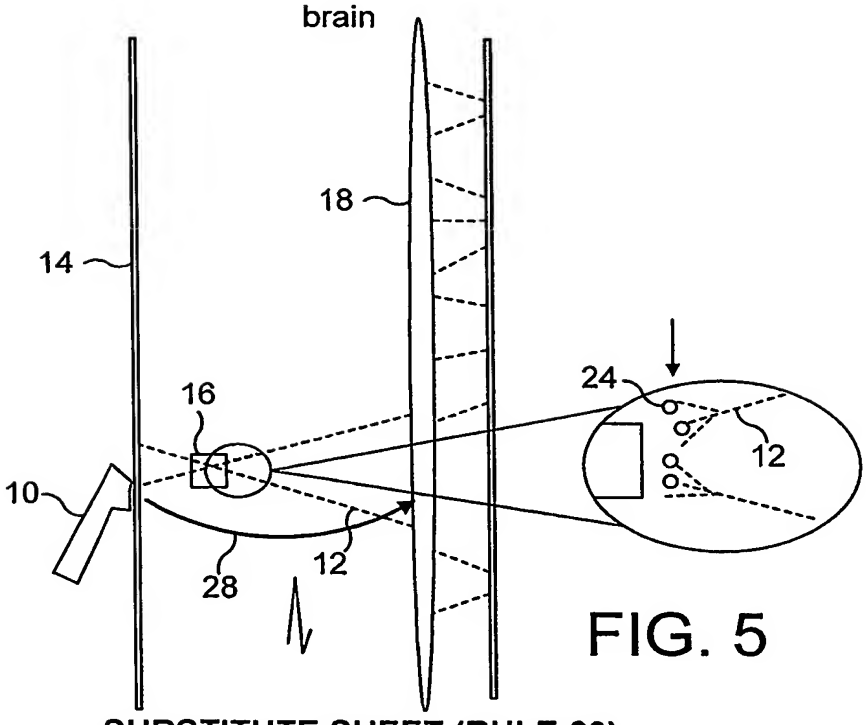

FIG. 5

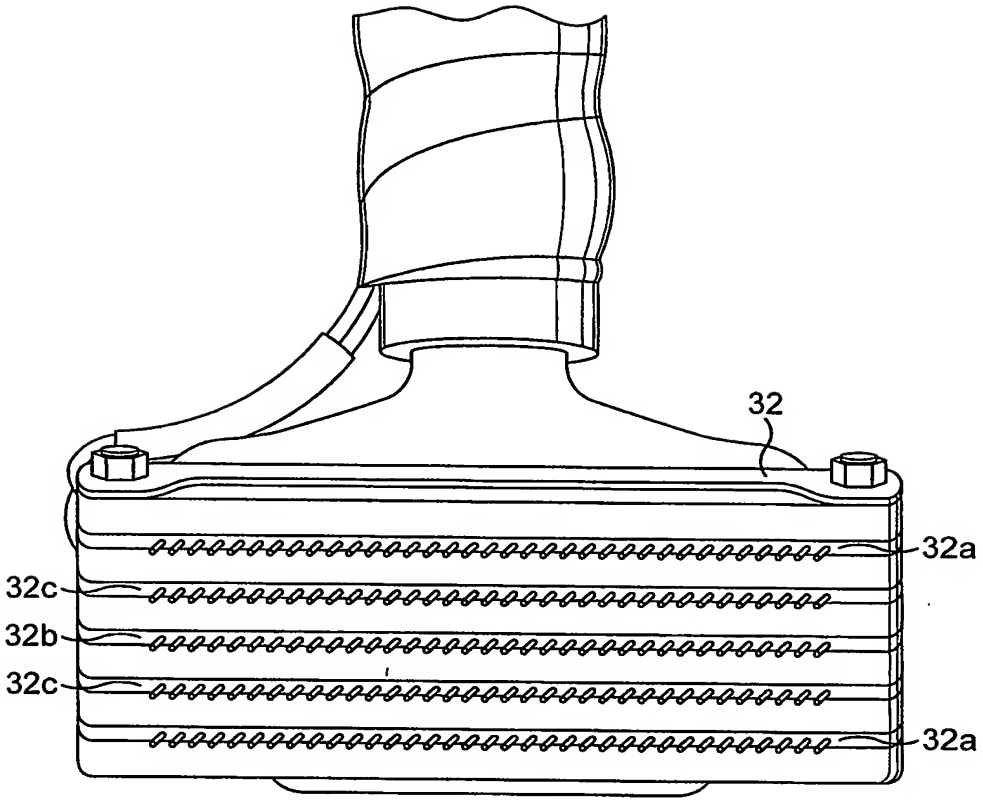

FIG. 6

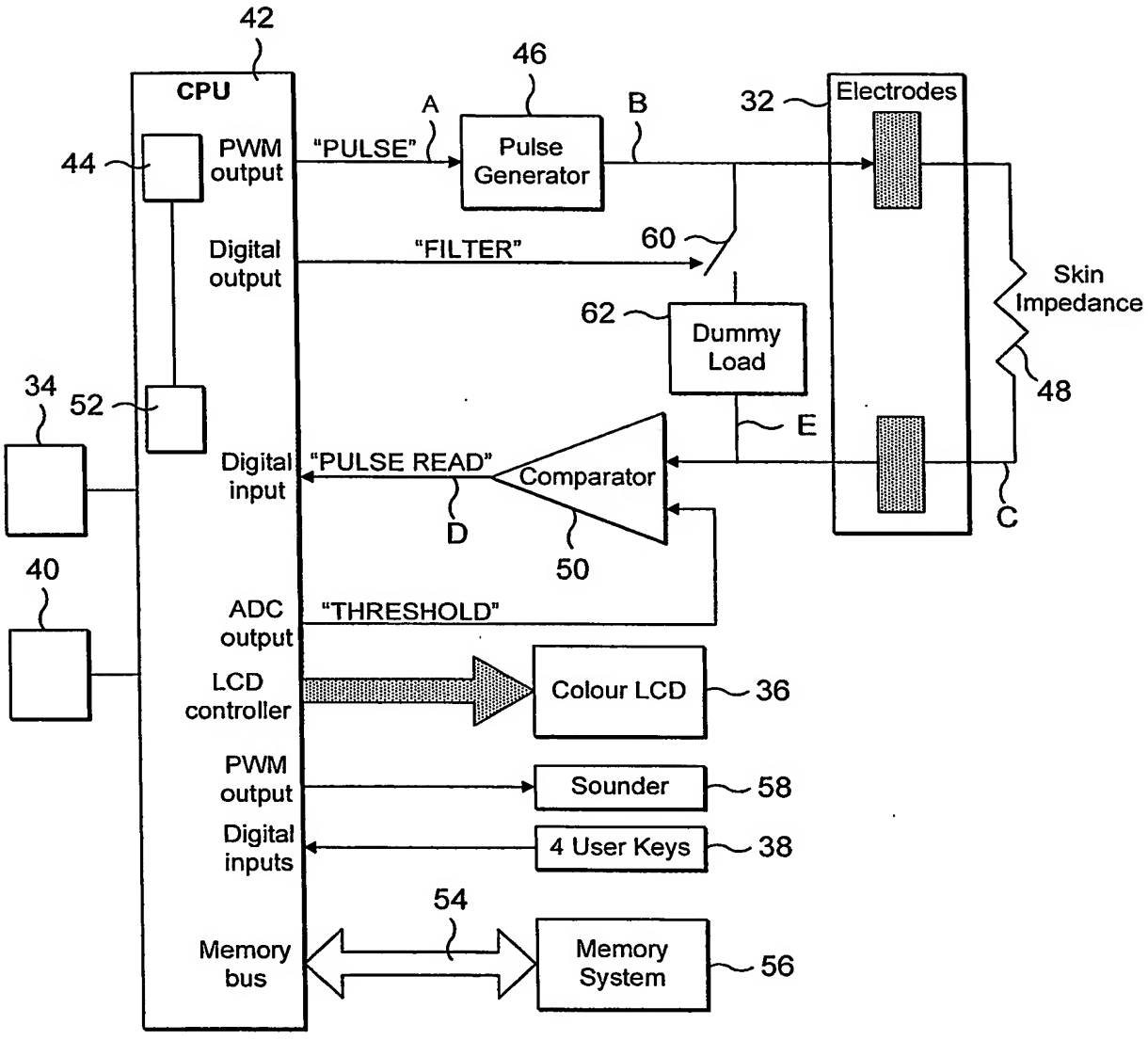
42
CPU
46
A
B
32
Electrodes
44
PWM output
"PULSE"
Pulse Generator
Digital output
"FILTER"
60
62
Dummy Load
Skin Impedance
48
34
52
E
Digital input
"PULSE READ"
Comparator
D
50
C
40
ADC output
"THRESHOLD"
LCD controller
Colour LCD
36
PWM output
Sounder
58
Digital inputs
4 User Keys
38
54
Memory bus
Memory System
56

FIG. 7

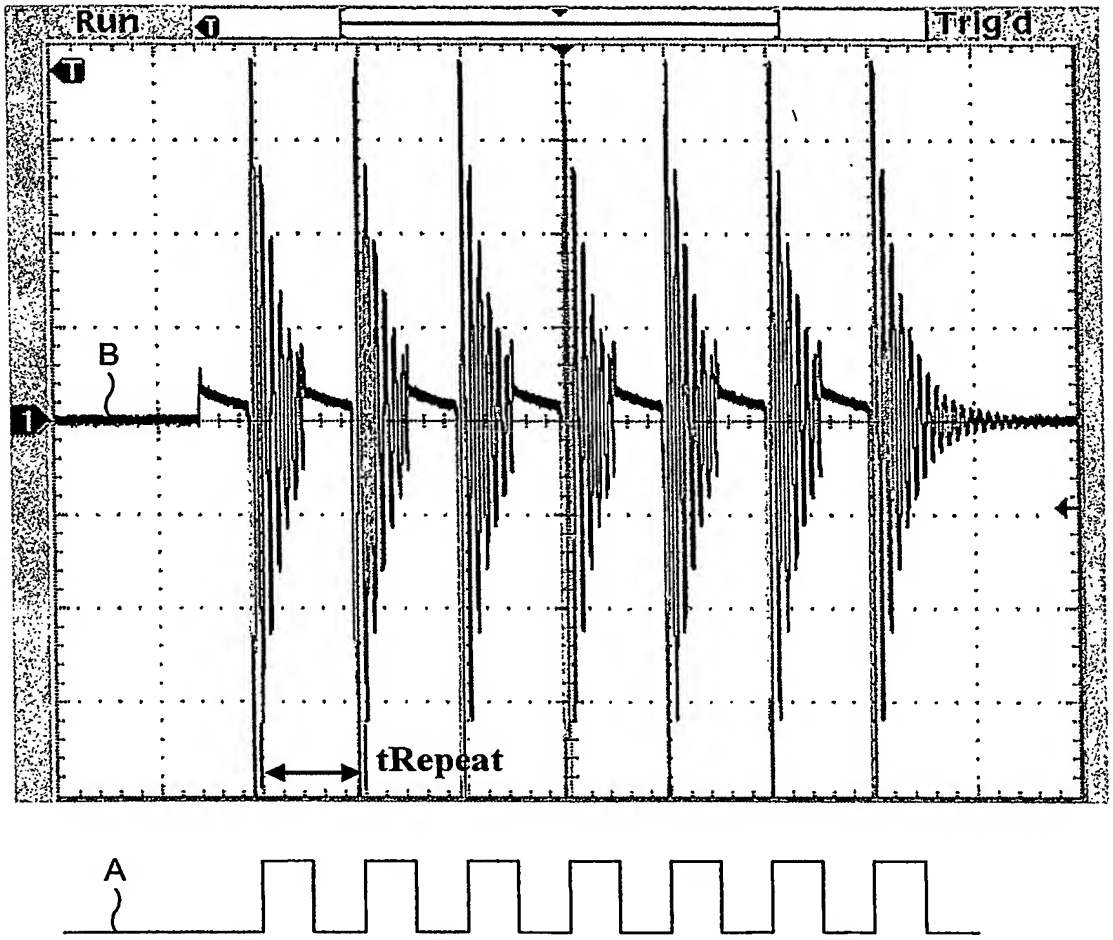

FIG. 8

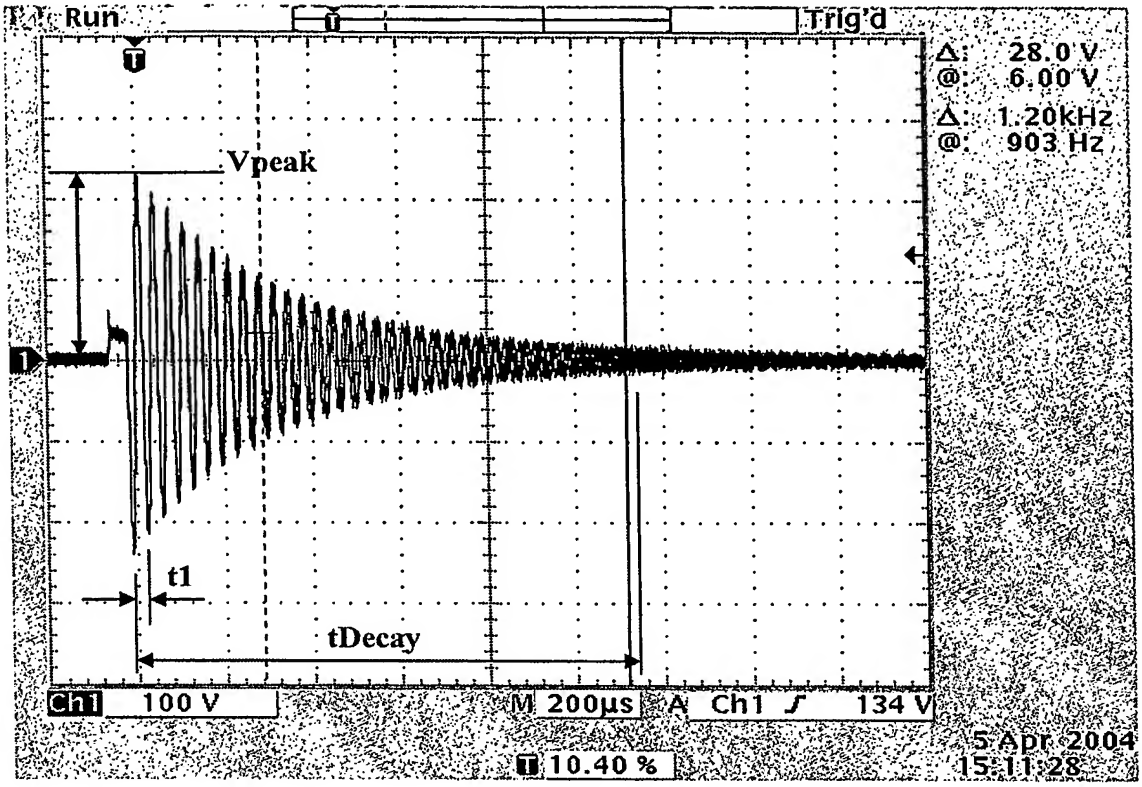
Run
Trig'd
Δ: 28.0 V
@: 6.00 V
Δ: 1.20kHz
@: 903 Hz
Vpeak
t1
tDecay
Ch1 100 V
M 200µs A Ch1 134 V
10.40 %
5 Apr 2004
15:11:28

FIG. 9

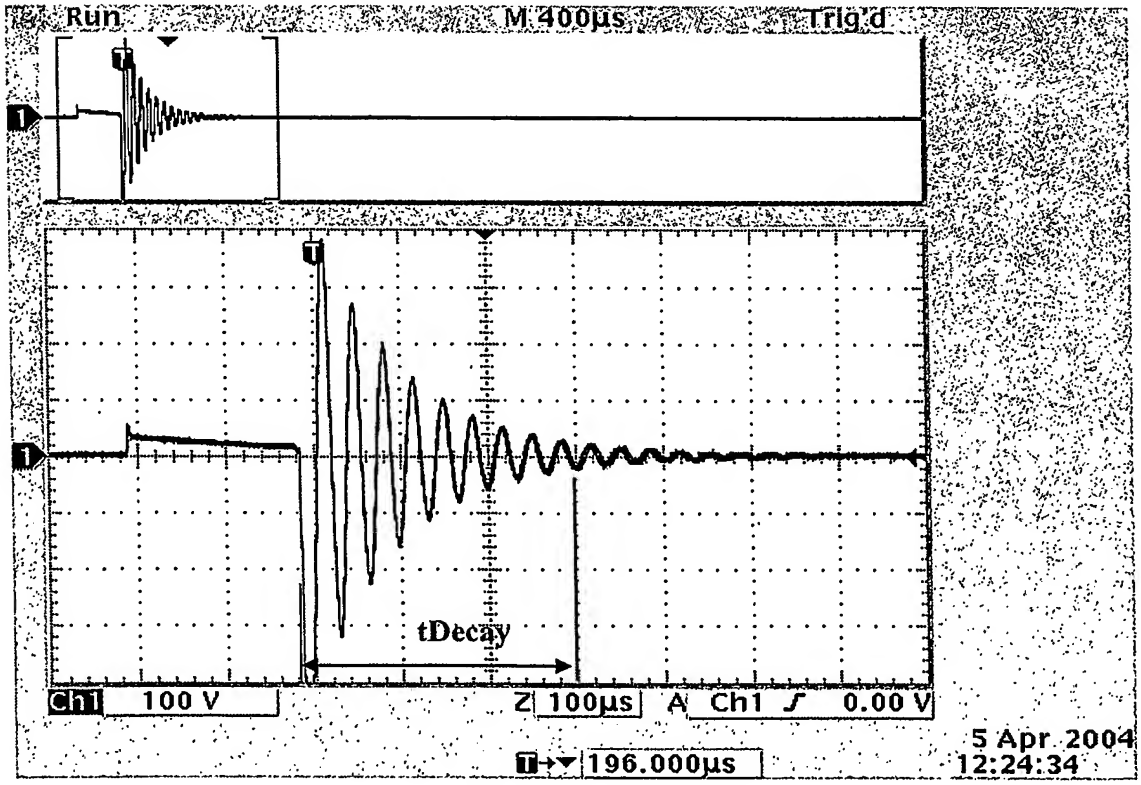
Run
M 400µs
Trig'd
tDecay
Ch1 100 V
Z 100µs A Ch1 0.00 V
196.000µs
5 Apr 2004
12:24:34

FIG. 10

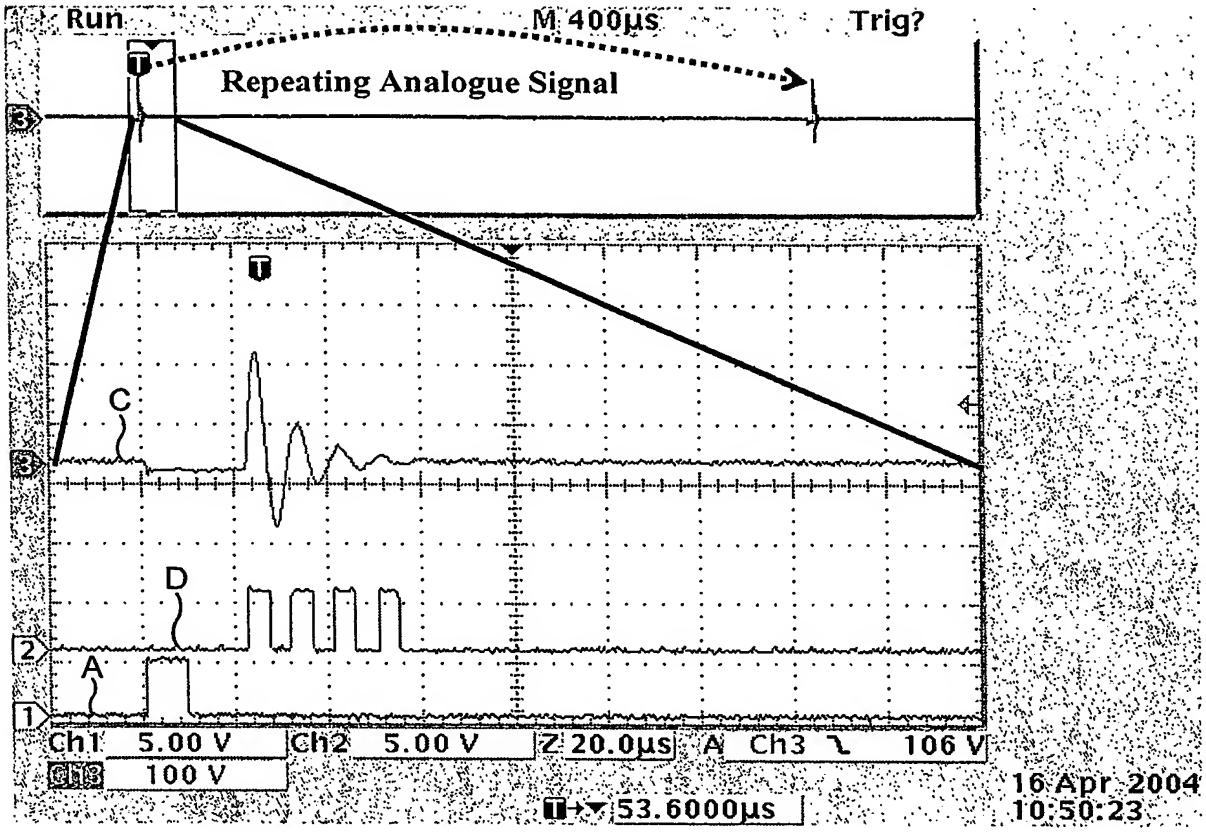
Run
M 400µs
Trig?
Repeating Analogue Signal
C
D
A
Ch1 5.00 V
Ch2 5.00 V
Z 20.0µs
A Ch3 106 V
Ch3 100 V
53.6000µs
16 Apr 2004
10:50:23

FIG. 11

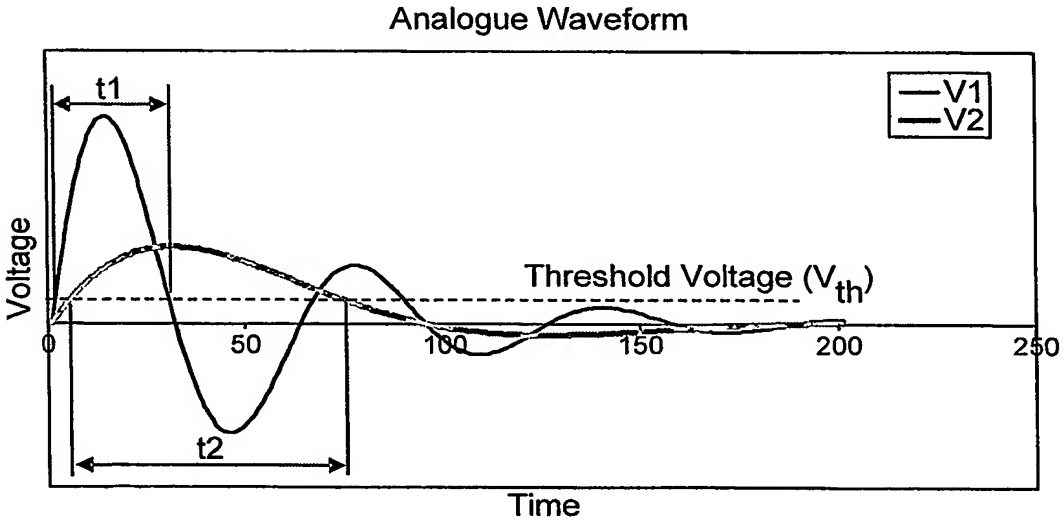
Analogue Waveform
t1
V1
V2
Voltage
Threshold Voltage (V_{th})
0
50
100
150
200
250
t2
Time

FIG. 12

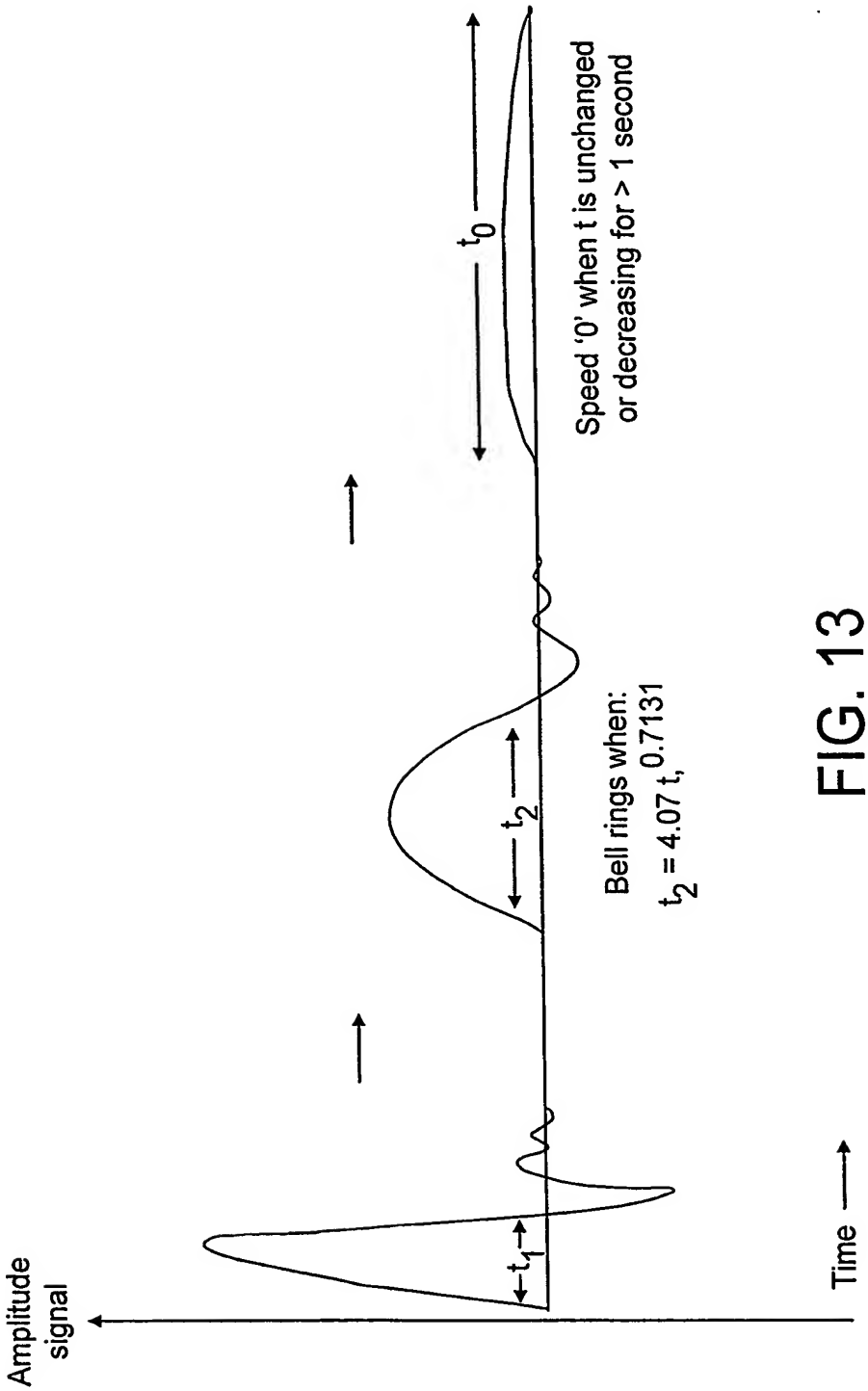
Amplitude signal
Time
t_1
t_2
t_0
Bell rings when:
$t_2 = 4.07\ t, 0.7131$
Speed '0' when t is unchanged or decreasing for > 1 second

FIG. 13

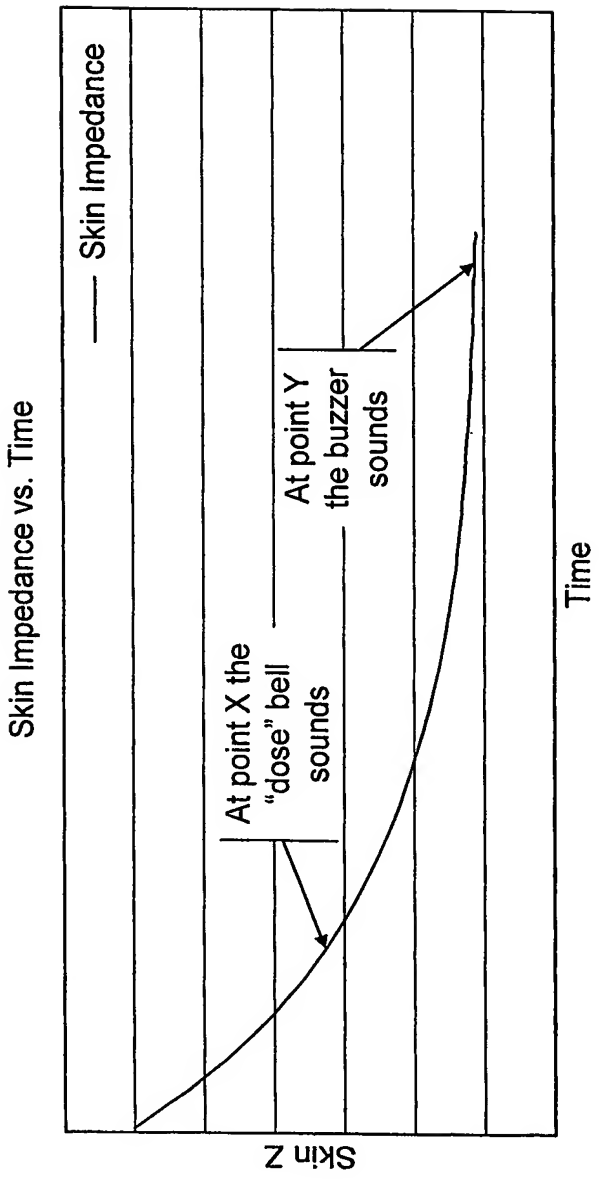
Skin Impedance vs. Time
Skin Impedance
At point X the "dose" bell sounds
At point Y the buzzer sounds
Time
Skin Z

FIG. 14

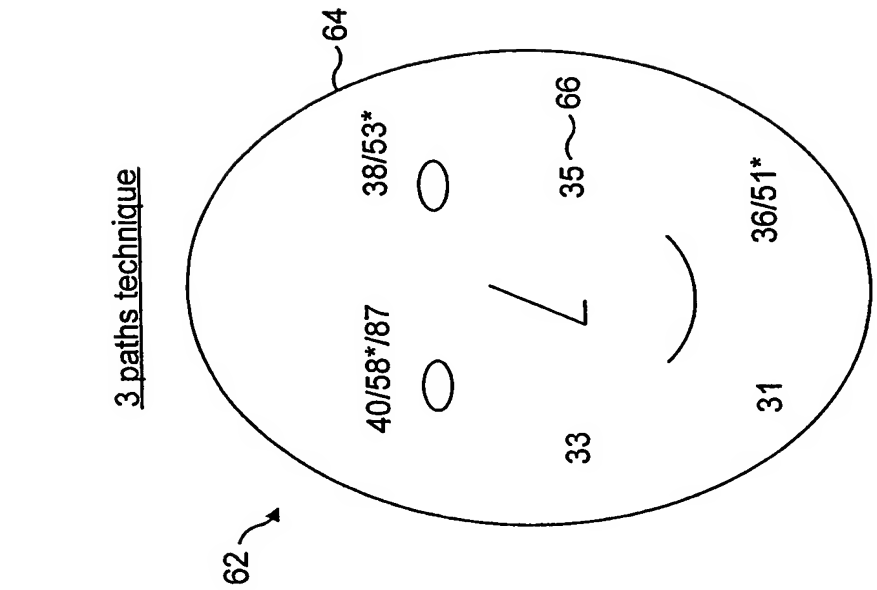
3 paths technique
64
38/53*
35
66
36/51*
40/58*/87
31
33
62

FIG. 16

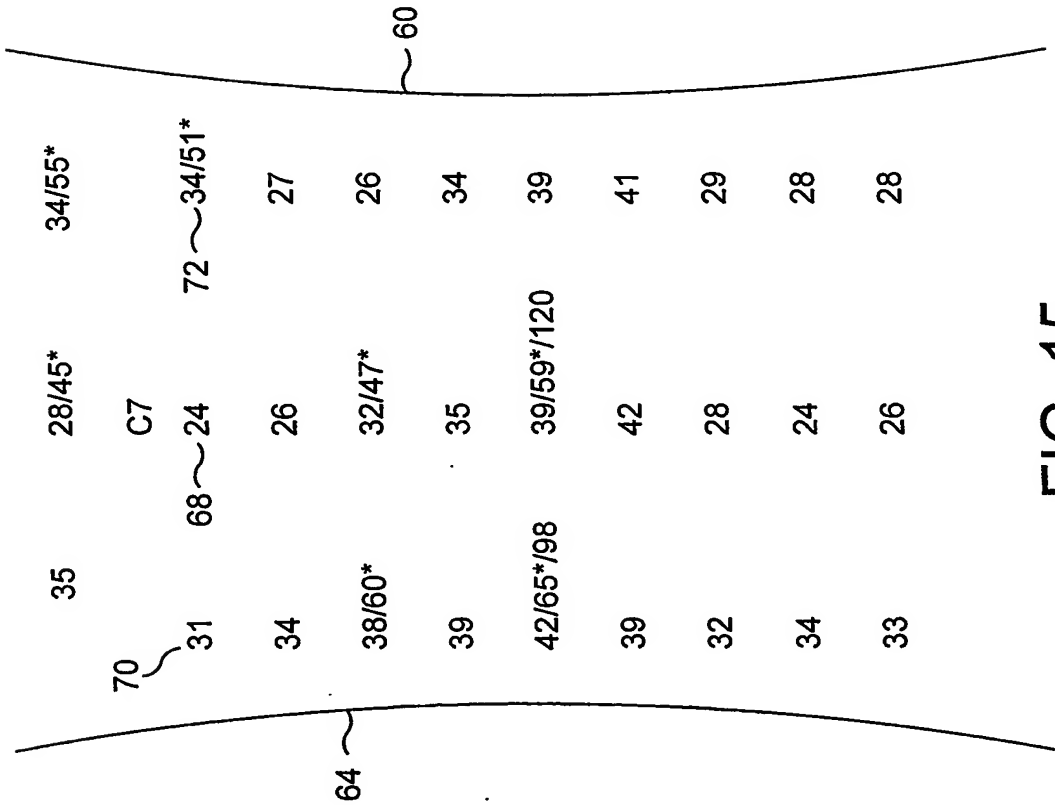
60
34/55*
28/45*
C7
72
34/51*
27
26
34
39
41
29
28
28
35
68
24
26
32/47*
35
39/59*/120
42
28
24
26
70
31
34
38/60*
39
42/65*/98
39
32
34
33
64

FIG. 15

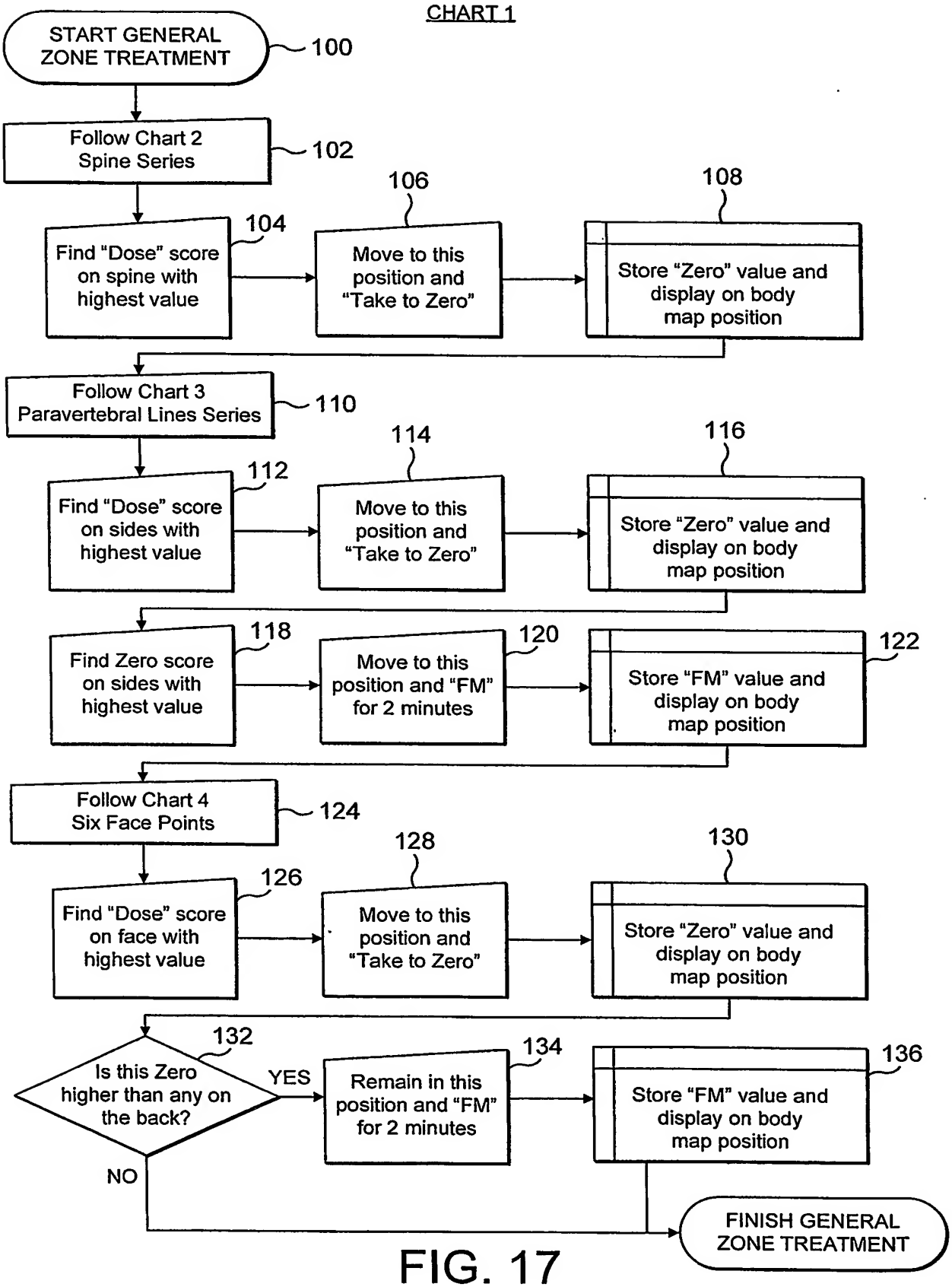
CHART 1
START GENERAL ZONE TREATMENT
100
Follow Chart 2 Spine Series
102
Find "Dose" score on spine with highest value
104
Move to this position and "Take to Zero"
106
Store "Zero" value and display on body map position
108
Follow Chart 3 Paravertebral Lines Series
110
Find "Dose" score on sides with highest value
112
Move to this position and "Take to Zero"
114
Store "Zero" value and display on body map position
116
Find Zero score on sides with highest value
118
Move to this position and "FM" for 2 minutes
120
Store "FM" value and display on body map position
122
Follow Chart 4 Six Face Points
124
Find "Dose" score on face with highest value
126
Move to this position and "Take to Zero"
128
Store "Zero" value and display on body map position
130
Is this Zero higher than any on the back?
132
YES
Remain in this position and "FM" for 2 minutes
134
Store "FM" value and display on body map position
136
NO
FINISH GENERAL ZONE TREATMENT

FIG. 17

CHART 2

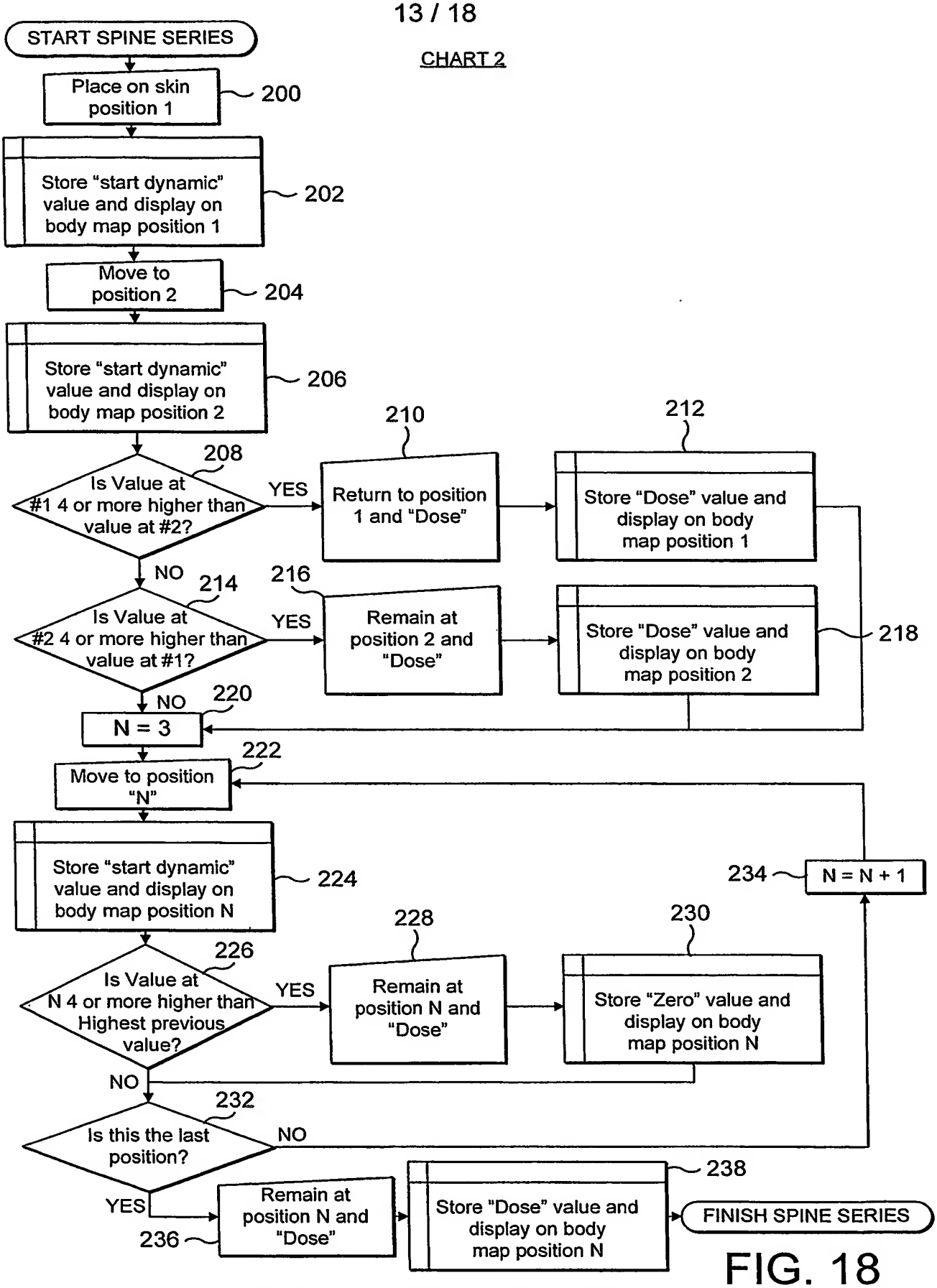

FIG. 18

CHART 3

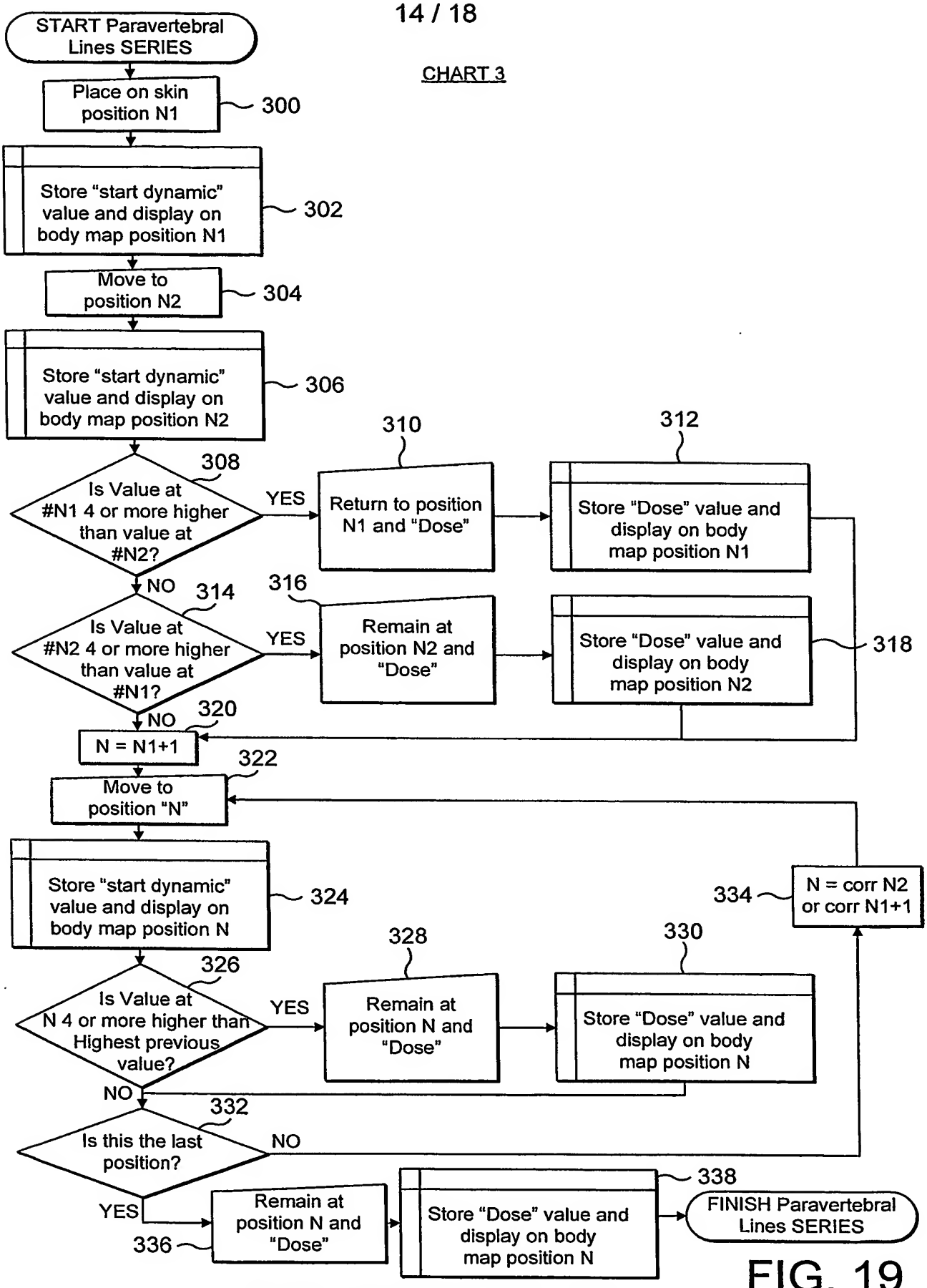

FIG. 19

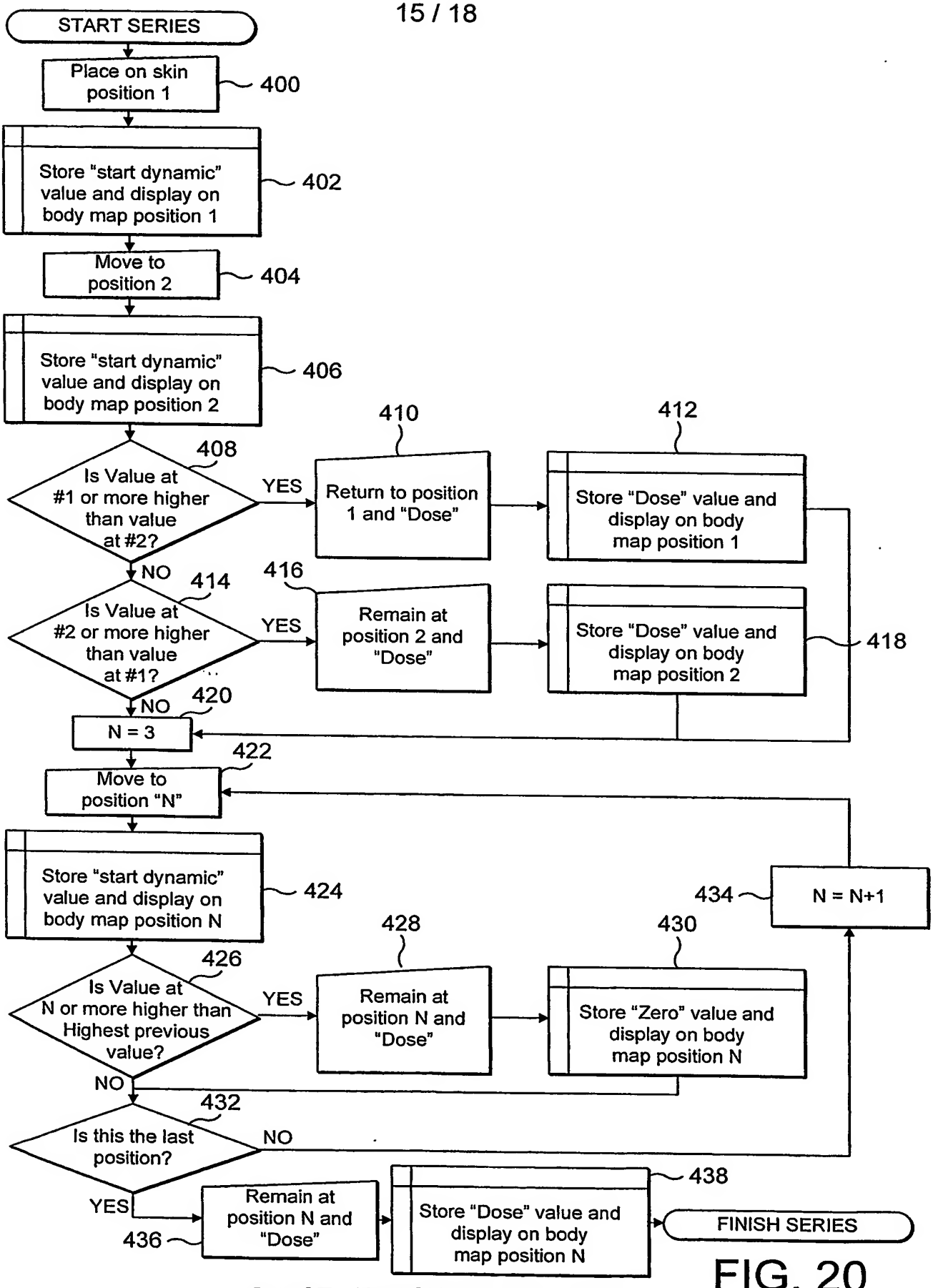
START SERIES
Place on skin position 1
400
Store "start dynamic" value and display on body map position 1
402
Move to position 2
404
Store "start dynamic" value and display on body map position 2
406
408
Is Value at #1 or more higher than value at #2?
YES
410
Return to position 1 and "Dose"
412
Store "Dose" value and display on body map position 1
NO
414
Is Value at #2 or more higher than value at #1?
YES
416
Remain at position 2 and "Dose"
Store "Dose" value and display on body map position 2
418
NO
420
N = 3
422
Move to position "N"
Store "start dynamic" value and display on body map position N
424
426
Is Value at N or more higher than Highest previous value?
YES
428
Remain at position N and "Dose"
430
Store "Zero" value and display on body map position N
434
N = N+1
NO
432
Is this the last position?
NO
YES
436
Remain at position N and "Dose"
438
Store "Dose" value and display on body map position N
FINISH SERIES

FIG. 20

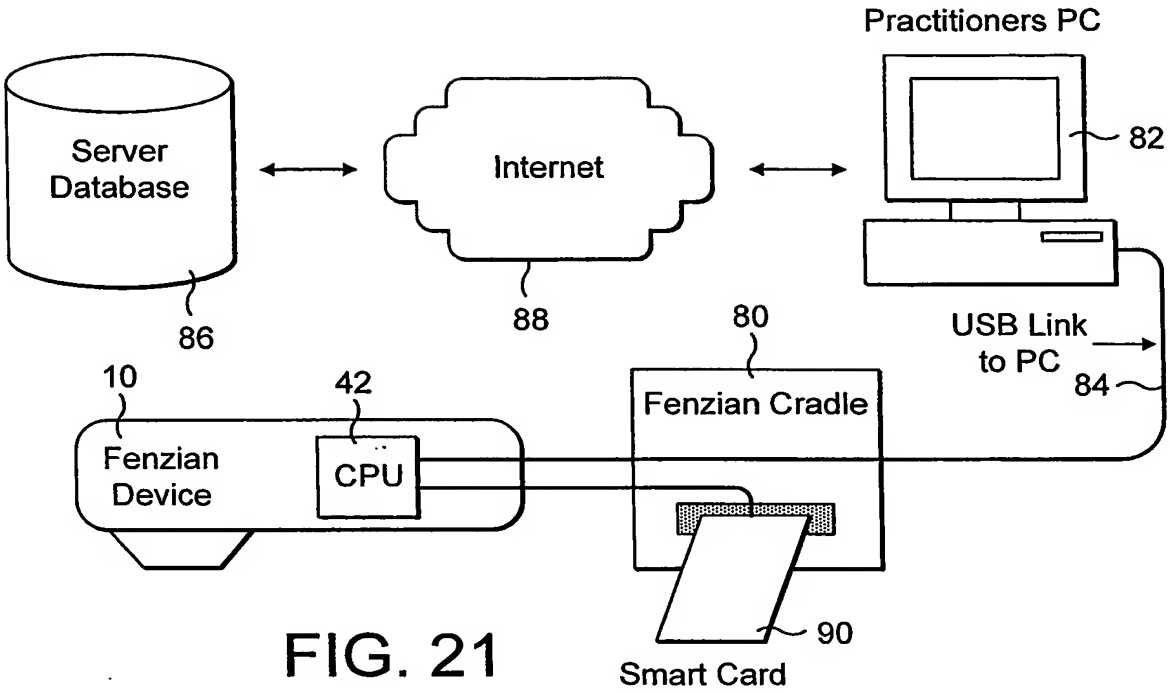
Practitioners PC
Server Database
Internet
82
86
88
80
USB Link to PC
84
10
42
Fenzian Cradle
Fenzian Device
CPU
90
Smart Card

FIG. 21

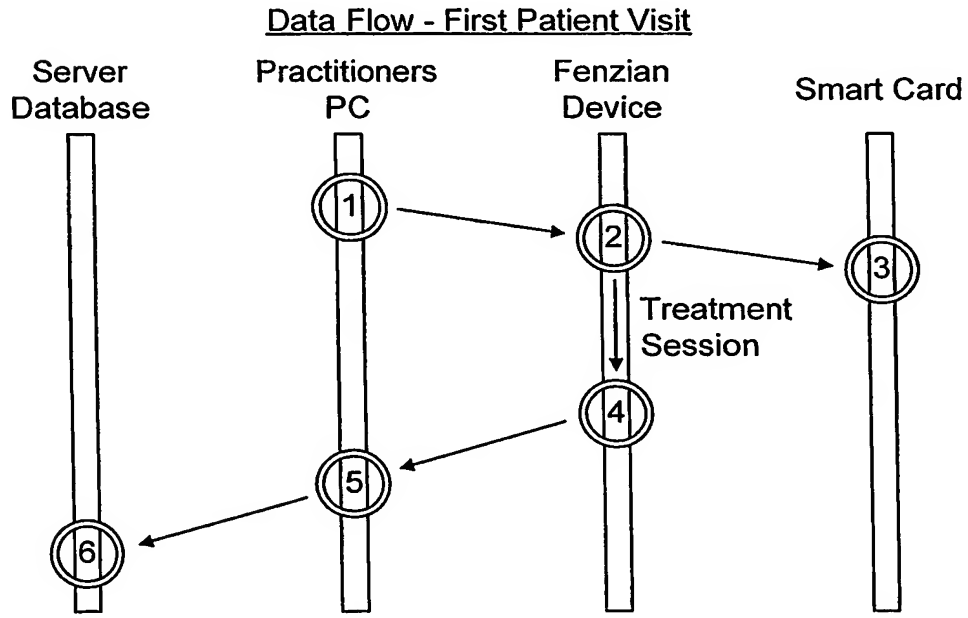
Data Flow - First Patient Visit
Server Database
Practitioners PC
Fenzian Device
Smart Card
1
2
3
Treatment Session
4
5
6

FIG. 22

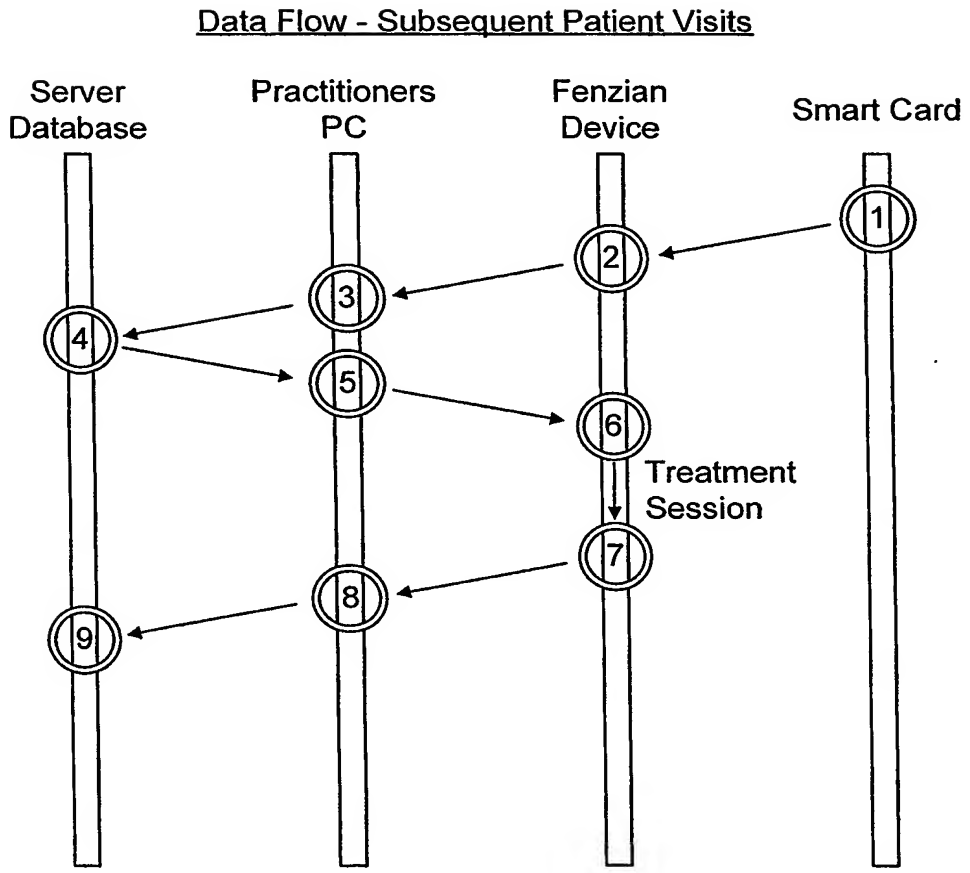
Data Flow - Subsequent Patient Visits
Server Database
Practitioners PC
Fenzian Device
Smart Card
1
2
3
4
5
6
Treatment Session
7
8
9

FIG. 23

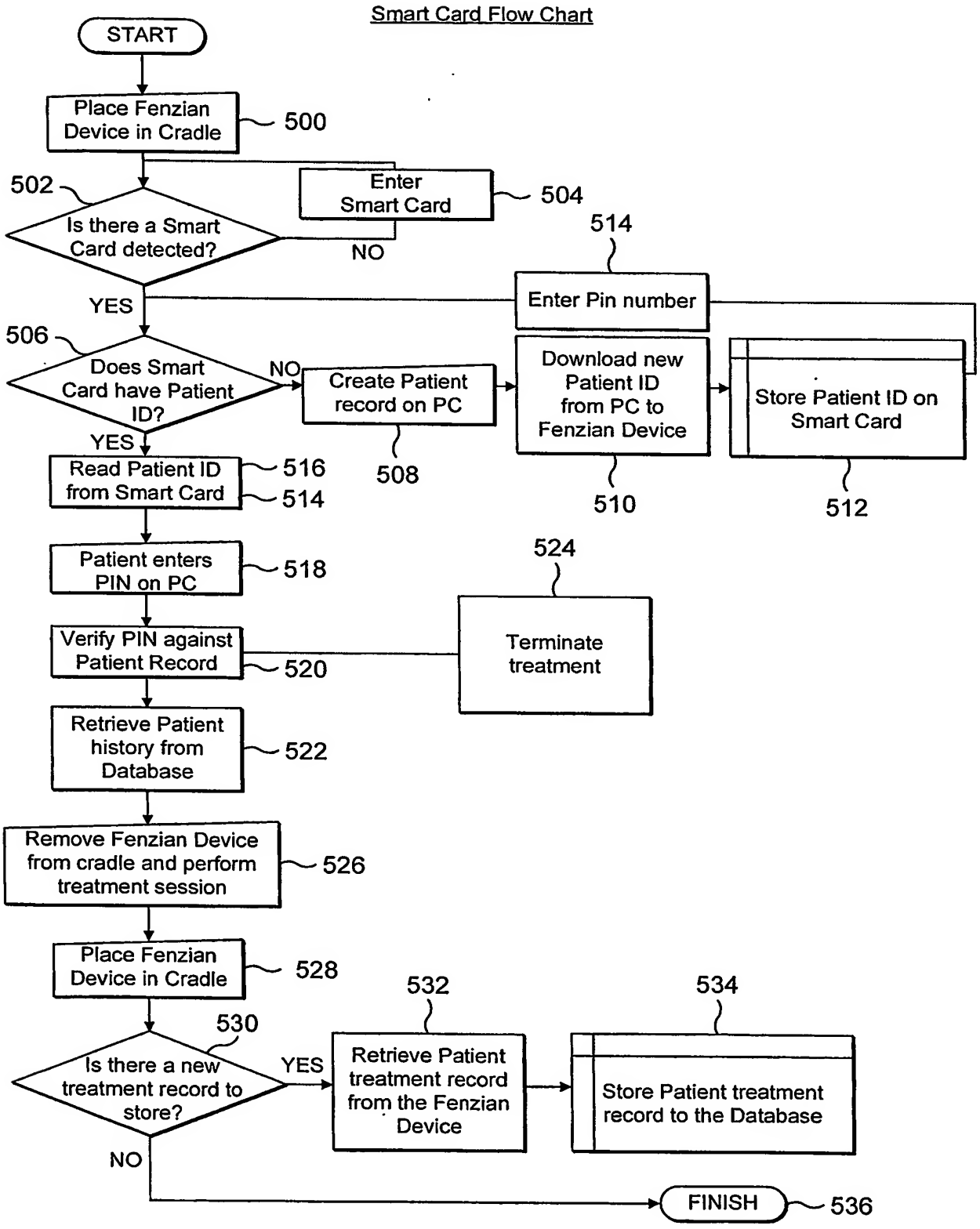
Smart Card Flow Chart
START
Place Fenzian Device in Cradle
500
502
Is there a Smart Card detected?
Enter Smart Card
504
NO
514
Enter Pin number
YES
506
Does Smart Card have Patient ID?
NO
Create Patient record on PC
508
Download new Patient ID from PC to Fenzian Device
510
Store Patient ID on Smart Card
512
YES
Read Patient ID from Smart Card
516
514
Patient enters PIN on PC
518
524
Terminate treatment
Verify PIN against Patient Record
520
Retrieve Patient history from Database
522
Remove Fenzian Device from cradle and perform treatment session
526
Place Fenzian Device in Cradle
528
532
534
530
Is there a new treatment record to store?
YES
Retrieve Patient treatment record from the Fenzian Device
Store Patient treatment record to the Database
NO
FINISH
536

FIG. 24